

5 STREPTOCOCCAL SERUM OPACITY FACTORS AND FIBRONECTIN-BINDING
PROTEINS AND PEPTIDES THEREOF FOR THE TREATMENT
AND DETECTION OF STREPTOCOCCAL INFECTION

Abstract of the Disclosure

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Provided herein are *S. pyogenes* serum opacity factor (SOF)- and *S. dysgalactiae* fibronectin-binding protein-based polypeptide, polynucleotide, and antibody compositions and methods. Compositions provided herein are effective in eliciting opsonic and/or protective antibodies specific for *S. pyogenes* and/or *S. dysgalactiae* and, consequently, are
15 useful *inter alia* for the treatment, diagnosis, and monitoring of streptococcal infections, including *S. pyogenes* and *S. dysgalactiae* infections, and diseases associated with *S. pyogenes* and *S. dysgalactiae* infections ranging from, but not limited to, mild and generally self-limiting infections of the pharynx and skin to more severe and life-threatening infections, such as toxic shock syndrome and necrotizing fasciitis. Compositions and
20 methods provided herein will also find use in preventing, or minimizing the severity of, the major sequelae of streptococcal infections are acute rheumatic fever and acute glomerulonephritis, as well as associated autoimmune neurological disorders.